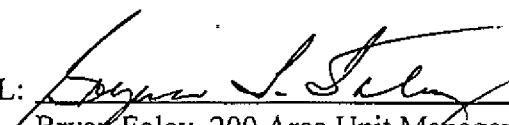
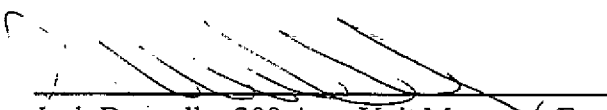


Meeting Minutes Transmittal/Approval  
Unit Manager's Meeting: Remedial Action and Waste Disposal Unit/Source Operable Unit  
Washington State Department of Ecology, Room 5, Kennewick, Washington  
June 14, 1996

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FROM/APPROVAL:  Date 8/31/96  
Bryan Foley, 200 Area Unit Manager, RL (H0-12)

APPROVAL:  Date 8/23/96  
Jack Donnelly, 200 Area Unit Managers Ecology (B5-18)

APPROVAL:  Date 8/23/96  
Paul Beaver, 200 Area Aggregate Area Unit Managers, EPA (B5-01)


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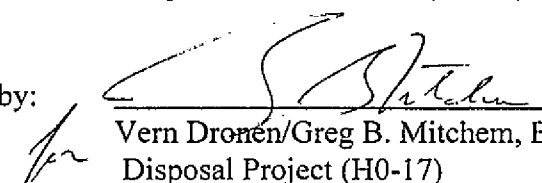
Meeting Minutes are attached. Minutes are comprised of the following:

|                       |   |   |
|-----------------------|---|---|
| Attachment #1 (1 p)   | - | Agenda  |
| Attachment #2 (36 pp) | - | Meeting Summary and Handouts                              |
| Attachment #3 (2 p)   | - | 200 Areas Strategy Meeting Grid                           |
| Attachment #4 (7 pp)  | - | 200 Areas Source Operable Unit Strategy Action Item List  |
| Attachment #5 (2 p)   | - | 200 Areas Source Operable Unit Strategy Parking Lot Items |

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Prepared by:  Date 8/23/96  
Greg B. Mitchem, ERC (H0-17)

Concurrence by:  Date 8/23/96  
Vern Dronen/Greg B. Mitchem, BHI Remedial Action and Waste Disposal Project (H0-17)

**Agenda - 200 Area Strategy Workshop**  
**June 14, 1996, 8:00 - 4:30 p.m.**  
**Ecology Offices**

1. Introduction
  - What's New
  - Review Agenda
  - Business; Minutes Sign off, Time Constraints, Planned Interruptions
2. Review Action Item List
3. Report on RMT Briefing and Discuss Approach for IAMIT
4. Results of Technical Document Subteam Meeting
5. Strategy Document
  - Review Comments/Feedback from External Groups
  - Next Steps (Revisions and Support for Presentations)
6. Parking Lot/Miscellaneous Items
7. Wrap-up
  - Next Meeting
  - Summarize Action Items

**Meeting Minutes - 200 Areas Strategy Workshop  
June 14, 1996, 8:00 - 1:30 p.m.  
Ecology Offices**

**1.0 INTRODUCTION**

**1.1 WHAT'S NEW**

Paul Beaver attended a meeting (of a new team) formed to consider 200 Area canyon building remediation alternatives. The team members include representatives from the U.S. Environmental Protection Agency (EPA) (Paul Beaver), Washington State Department of Ecology (Ecology) (Bob Julian and Joe Witczak), the Environmental Restoration Contractor (ERC), and the facilities. The possible options presented included 105-C reactor type safe storage, barrier placement, or partial removal. The team is looking at options to see if the potential exists to coordinate their actions with 200 Area remediations that involve soils removal.

**Review Agenda**

Paul Beaver asked to add the following items under item IV-Results of Technical Document Subteam Meeting to the agenda:

- Discuss schedule and milestones associated with new strategy
- Discuss costs of planned assessment and remediation associated with new strategy
- Discuss potential impact from changing from operable unit (OU)-based assessment approach regarding the past use of OU Record of Decision (ROD) as a measure of progress.

A review of the Action Item list was changed to the next meeting and set up to be reviewed every other meeting.

**Business:** Minutes Sign off, Time Constraints, Planned Interruptions

- Minutes for the May 15, 1996, meeting were signed off
- Meeting end time was changed to 1:30 p.m.
- Draft meeting minutes for June 6, 1996, were distributed for review. An action item was established for review and return of comments.

**Action Item:** Ecology and EPA will review the June 6, 1996, minutes and return comments to Michael Galgoul.

**Actionee:** EPA - Paul Beaver  
Ecology - All

**Due Date:** June 21, 1996

## 2.0 REVIEW ACTION ITEM LIST

Deferred.

### 3.0 REPORT ON RMT BRIEFING AND DISCUSS APPROACH FOR IAMIT

The team discussed the next steps related to briefing Ecology and EPA upper management and the role of the Inter-Agency Management Integration Team (IAMIT). Several schedule dates for the briefing were discussed, but rejected because key team decision makers were not present. A video teleconference on July 11, 1996, among Ecology personnel in Lacey and Kennewick, EPA (Doug Sherwood and Paul Beaver), and the U.S. Department of Energy, Richland Operations Office (RL) (Brian Foley) was agreed upon as the best possible approach. Dave Lundstrom scheduled the Lacey video teleconference room and the Lacey participants. Paul Beaver will schedule and confirm Doug Sherwood. Michael Galgoul will schedule and confirm a video teleconference room in Richland.

An action item was established for the video teleconference.

**Action Item:** The EPA will schedule Doug Sherwood for the July 11, 1996, video teleconference, and the ERC will schedule a video teleconference room.

**Actionee:** EPA - Paul Beaver  
ERC - Michael Galgoul

**Due Date:** June 21, 1996

The team believed that a presentation to the IAMIT in July would be required only if there was disagreement on the 200 Areas Strategy. Scheduling a time slot on the July IAMIT agenda would be deferred until after the July 11, 1996, presentation. The IAMIT agenda is not expected to be crowded, and it will be relatively easy to add an item. Contact Jack Donnelly to add an agenda item for the IAMIT.

Greg Mitchem discussed the presentation given to the Results Management Team (RMT) and provided their feedback. Paul Beaver praised the presentation and provided his prospective. Bryan Foley stated that this was the first opportunity for the regulators to be present at the RMT meeting and that it was strongly welcomed by the RMT members.

The following items were discussed by the team.

- Greater focus should be placed on how to complete remediation by 2018.
- More specific details of remediation scope, schedule, milestones, and budget need to be developed.
- More details for the cost basis for the bar charts need to be presented during the next briefing.

The following concerns were presented as a result of the feedback from the RMT presentation.

- Upper management of all organizations should collectively discuss whether the 2008 *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) milestone date to complete assessment activities is an interim date that may be slipped or a firm date that must be met.
- Use of Barrier placement at waste sites as the base case for multi-year work plan planning may not be a "safe (conservative) assumption" and may send the wrong message to the stakeholders.

Bryan Foley asked, and the team agreed, that the presentation to EPA and Ecology should follow the same template as the RMT presentation. The only changes would be to incorporate items discussed by the RMT to ensure every one is on the same page. It was discussed that another round of updating may be required, based on the results of the July 11 briefing.

The following needs were presented for the strategy document team members (Laura, Bryan, Paul, Curt, et al.) to include in the document.

- A more detailed remediation strategy.
- The cost and schedule required to meet 2018 Tri-Party Agreement end of remediation milestone.
- The 200 Area ER interfaces with other 200 Area programs (e.g., TWRS, WM) and a schedule of their activities.
- A process and level of formality for comment resolution and incorporation for the document.

## 4.0 RESULTS OF TECHNICAL DOCUMENT SUBTEAM MEETING

### 4.1 SUBTEAM RESULTS

The technical document subteam consists of Bryan Foley, Paul Beaver, Suzanne Dahl, Joan Bartz, Laura Russell, Greg Mitchem, and Curt Wittreich. Joan Bartz, Greg Mitchem, and Curt Wittreich were present for the June 11, 1996, meeting.

Curt Wittreich distributed meeting notes from the June 12, 1996, technical document subteam meeting and discussed the results. The meeting notes included a draft document outline and a table with quantitative values for the implementation assumptions. The following items were discussed related to the outline.

Bryan Foley added to the primary purpose as follows: the Technical Document provides the technical justification/verification for moving from an OU basis to a process waste-stream basis.

Suzanne Dahl stated that the document should provide the rationale and supporting information to place a waste site in a subgroup.

Joan Bartz requested the objective be clarified as follows: Nine waste groupings were developed. The nine waste site groupings are divided into 24 subgroups. The Technical Document will present a conceptual model for each subgroup and select representative sites for each subgroup.

The level of detail in the background section was discussed. It was agreed that the section would provide appropriate technical basis for the waste group assignments and development of the conceptual model. The work plans would need to supply additional information above that contained in the Technical Document.

The level of detail for the conceptual model was discussed, and it was agreed that the level of detail should be about 1 to 2 pages of text with a figure. An action item was given to the subteam to develop a strawman conceptual model based on the 200-UP-2 OU for the team to evaluate the level of detail.

**Action Item:** Develop a strawman conceptual model based on the 200-UP-2 OU for the team to evaluate.

**Actionee:** Technical Document Subteam - Curt Wittreich

**Due Date:** July 9, 1996

The section on exposure routes and receptors should be deleted and addressed in the work plan.

The team was asked to provide comments on the characterization criteria table with the quantitative values added.

**Action Item:** The strategy team was asked to review and provide comments on the characterization criteria table with the quantitative values added.

**Actionee:** Strategy team - All members

**Due Date:** July 9, 1996

The technical document subteam will meet every 2 to 3 weeks to review progress on the document and review key information (i.e., the selection of representative sites criteria with the full team), as necessary. The next deliverable is the detailed outline. The subteam will present in-process details to update the full team, but not generate special presentations for these updates.

**Consensus Item - The team agreed to accept the outline as modified as the basis for the Technical Document.**

## **4.2 SCHEDULE AND MILESTONES**

Paul Beaver proposed the following changes to the Tri-Party Agreement milestones.

- Add 3 M-13 milestones
- Submit 1 work plan (East) September 31, 1998
- Submit 1 work plan ( West) December 31, 1998
- Submit 2 Descriptions of Work (DOW) December 31, 1999
- Change M-13-00K from 2 to 3 DOWs
- Change remaining M-13 milestones from work plans to DOWs
- Change M-15 milestone wording: replace work plan with DOW
- Need to revise M-20-00 to include milestones past the year 2000

The *Resource Conservation and Recovery Act of 1976* (RCRA) treatment, storage, and disposal (TSD) unit milestones were discussed. The present 200-BP-11 TSD unit milestones for 2000 must remain in place since the permit modification schedule has been published. There is more flexibility for setting TSD unit milestones after the year 2000 since the permit modification schedule has not been negotiated.

A discussion was held on RCRA acceptance of representative site data for a TSD unit closure. The issue could not be resolved, and an action item was assigned.

**Action Item:** Determine if a mechanism exists for RCRA acceptance of representative site data for a TSD unit closure.

**Actionee:** EPA - Paul Beaver  
Ecology - Joan Bartz, Moses Jaraysi, and Dave Lundstrom

**Due Date:** July 9, 1996

### 4.3 COSTS OF ASSESSMENT AND REMEDIATION

The need to develop defensible cost data for remediation was discussed. Bryan Foley stated that the Multi-Year Work Plan (MYWP) was being revised to account for the 200 Areas Strategy. Cost estimates were being generated based on characterization of representative sites for 24 subgroups; the update of the baseline for remediation would be based on areas outside the exclusion zone being removed and only areas within the exclusion zone being capped. While better data would be available after completion of the Technical Document, the timing would not support the MYWP and baseline update process.

The concern was discussed regarding the appropriateness of budgeting with a basis other than removal (i.e., barriers as a basis for cost estimates that might be construed by some stakeholders as predetermining a remedy by limiting future dollars available).

Paul Beaver and Greg Mitchem agreed to meet off line to determine a technically consistent basis for assumptions of remedial alternative, for the cost estimates, and select representative cost estimates that are appropriate for use in the Strategy Document and possibly the baseline update. A discussion regarding fiscal year (FY) 1996 and FY 1997 funding and potential for carry-over for 200-UP-2 and the 216-U-12 closure and the associated issues were discussed. Because resolution could not be reached, it was placed in the Parking Lot.

**Parking Lot:** Resolve issues associated with no present FY 1997 funding for 200-UP-2 and 216-U-12 closure.

## 5.0 STRATEGY DOCUMENT

### 5.1 REVIEW COMMENTS/FEEDBACK FROM EXTERNAL GROUPS

Bryan Foley presented comments from the RL internal review. He received two comments: one from RL legal to address NEPA values in the document and the other from TWRS to address program interfaces.

The issue of program interfaces was discussed. It was agreed to be handled in the document as follows:

- Present most recent published schedules of the programs and discuss interfaces
- Discuss team member participation in cross program teams. An action item was generated for team members to identify these interfaces.



**Action Item:** Team members should identify participation in cross-program teams and forward by cc:Mail to Curt Wittreich.

**Actionee:** All team members

**Due Date:** June 21, 1996

- Add a discussion that the RL ER project manager is the point of contact for future coordination activities.

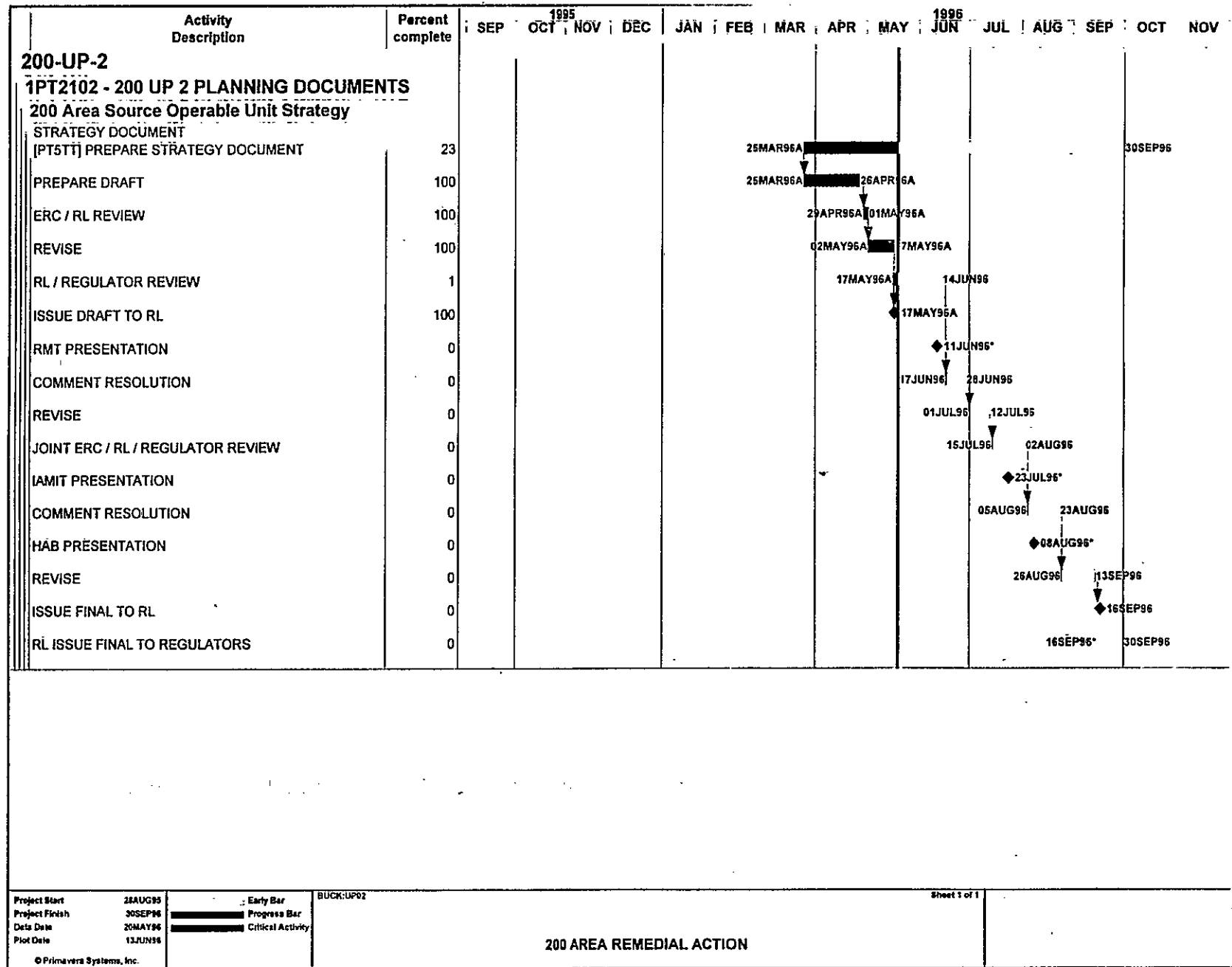
Any future RL comments will be forwarded to Michael Galgoul for distribution to the Strategy Document subteam.

## **6.0 WRAP-UP**

### **Next Meeting**

The next meeting is scheduled for July 9, 1996, at Ecology. The draft agenda is attached.

## Handout Agenda Item 3 for Discussion of Ecology Management Meeting



**Handout Agenda Item 4 for Discussion of the Draft Technical  
Document Subgroup Meeting Notes - 6/11/96**

This subgroup meeting was held to discuss the scope of the 200 Areas Source Technical Document. Attendees included Greg Mitchem, Joan Bartz, and Curt Wittreich. An initial outline for the document was reviewed.

Issues discussed included the following:

- Need to get away from different group levels (i.e., subgroups); establish one set of groups
- Information/references used to assign sites to groups should be captured in an appendix
- Table showing how group prioritization scores were established should be provided as an appendix
- Criteria for representative site selection needs to be established/applied by the subgroup. Groupings need to be finalized before site selection can occur
- Need to further refine characterization criteria such that they can be applied in a quantitative manner, when applicable (e.g., mobile contaminants are defined as having Kds <5). A modified characterization criteria table was provided as a handout that included implementation assumptions for quantifying criteria
- The level of conceptual model development in the document was discussed without conclusion; remains an open item that needs to be resolved
- Data needs should be identified as part of the conceptual model development text (e.g., via assumptions) and a separate section is not needed. Data needs should be addressed in detail by the work plan
- Recommended that the full team be briefed on the outline on June 14, 1996
- Recommended that the Technical Document subteam meet every 2 to 3 weeks and update full team, as appropriate.

**Draft**  
**Technical Document Outline**

**Introduction (1-2 pages)**

Basis: Briefly summarize 200 Area Strategy and discuss how this document fits in

**Purpose, Scope, Objectives**

Primary purpose: Finalize waste site groups and to select specific waste sites that best represent those groups for characterization.  
Document will support work plan development

Objectives: Finalize waste site groups/subgroups  
Select representative site(s) for each waste group/subgroup  
Develop conceptual models for each waste group/subgroup

**Site Conditions (1-2 pages)**

General Geology/Hydrology for 200 Areas. Contrast 200E and 200W site conditions.  
Provides foundation info for conceptual model section

**Waste Site Groups**

Discuss grouping process including criteria defined in strategy document. Discuss subgroupings when applicable and associated criteria (e.g., uranium inventory cutoff values. Finalize/complete groupings using process knowledge.

Prioritize/score groups based on criteria ranking meeting (5/13/96) results. (Need to further define specific criteria first; i.e., contaminants with  $K_d < 5$  are mobile).

Table(s) of waste groups including ranking score and associated waste sites with general site-specific information.

**Representative Sites for Characterization**

Summarize analogous group concept (see HPPS)

Discuss selection process including associated criteria.

Table of groups and selected representative waste sites

**Conceptual Models**

Provide summary description of each waste group including:  
primary contaminants and associated characteristics  
source(s) including brief process description  
release mechanisms  
affected media  
transport pathways

exposure routes/receptors

Develop conceptual models for each waste site group, when applicable, in the form of figures.

## **References**

## **Appendices**

Data to support waste site groupings  
Scoring matrix

| CONSOLIDATION OF CHARACTERIZATION PRIORITIES FROM BRAINSTORMING |   |                  |  |
|---|---|------------------|--|
| CRITERIA NUMBER   | SPECIFIC CRITERIA   | CRITERIA RANKING | IMPLEMENTATION ASSUMPTIONS   |
| 1a  | Impacts to groundwater (GW): past and present   | Low              | Based on subgroup  |
| 1b  | Impact to groundwater (GW): present   | Med              | Based on subgroup  |
| 2   | Immediate future (5-10 years) of groundwater (GW) impacts   | High             | Based on subgroup  |
| 3   | More mobile constituents versus less mobile constituents; physical (e.g., driving force) and chemical | Med-High         | Priority contaminants with $K_d < 5$ high mobility<br>$5 < K_d < 100$ moderate and $K_d > 100$ low mobility<br>Presence of driving force based on GWAAMSR Table 2-4<br>X2 feet from actual waste site for secondary source |
| 4   | Sites subject to known driving forces   | Low              |  |
| 5   | No or limited characterization information including historical data                                  | Med              | Based on AAMSR plus  |
|   | Limited characterization information  |                  |  |
| 6   | Not a well understood chemistry promoting migration (increasing mobility) for group                   | Med-High         | ?  |
|   | Sites without analogous investigations completed  |                  |  |
| 7   | Good candidate analogous sites (maximum number of sites addressed)                                    | High             |  |
| 8   | Long vs short half-life (long first over short lived)   | Low              | Short = <30 years and long => 30 years   |
|   | Organics  |                  |  |
|   | Uranium/Pu  |                  |  |
|   | High risk   |                  |  |
|   | Low risk  |                  |  |

| CRITERIA NUMBER | SPECIFIC CRITERIA  | CRITERIA RANKING | IMPLEMENTATION ASSUMPTIONS   |
|-----------------|--|------------------|--|
| 9               | Current threat sites (surface threat) - short-term fix to lower its priority.  | Low              | sites with collapse potential<br>sites with > or = 100 Millirem/yr<br>sites with > or = MTCA C                             |
|                 | <del>Hit current threat sites, then sites with "unknown" impacts, then work outside/in on low risk sites.</del>          |                  |  |
|                 | <del>Sites with current work plans (take advantage of work already done - technical work, DQOs, work plans, etc.).</del> |                  |  |
|                 | <del>Sites with current work plans</del>   |                  |  |
| 10              | <del>Minimum</del> Low-levels of expected contamination: <del>maximum</del> large area to be remediated                  | Med              | larger areas with broad low levels of contamination or larger uncontaminated areas with spotty areas of high contamination |
| 11              | Sites near perimeter of plateau vs core  | Med              | core being within 200 E and W fences   |
|                 | <del>Fill in the gaps sites</del>  |                  |  |
|                 | <del>Group with largest geographic proximity</del>   |                  |  |
| 12              | Easier (vs more difficult) to characterize and/or remediate first  | High             | nonintrusive easiest ; trenching moderate; and drilling difficult through contamination difficult                          |
|                 | <del>Expected near surface sites</del>   |                  |  |
| 13              | Sites with contaminants that have identified potential treatability technologies associated with them                    | Med              | check with technology leads  |



**“200 Area  
Cleanup Strategy”  
In Progress Review**

***June 11, 1996***



# ***Agenda***

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- **Point of View**
- **Status**
- **Background**
- **200 Strategy Document**
- **Accomplishments**
- **Challenges**
- **Key Points to Remember**
- **What We Need From You**
- **Team Perspectives**

# ***Point of View***

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**The 200 Area Cleanup Strategy gets us to remediation faster, optimizes characterization, offers huge savings and reduction in paperwork.**

- To Date...AGILE TEAM + COLLECTIVE DECISION MAKING = S-U-C-C-E-S-S!**
- NEED RL and Regulator upper-management support of team's collective decision making and commitment to Strategy implementation...NOW!**

# ***Status***

---



- **A working draft Strategy is being reviewed by the Strategy Team, key ER project interfaces, key RL program interfaces, DOE-HQ, HAB, and Indian Nations.**
- **An implementation process has been developed.**
- **Team working well and subteams are working GREAT!**
- **Technical document development is underway.**
- **MYWP input from 200 Area subproject is being built based on Strategy.**
- **FINAL DRAFT will be published in SEP 1996!**

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# ***Background - Objectives***

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- **Define an integrated, streamlined process to proceed with the RI/FS/ROD and RFI/CMS/CP activities.**
- **Incorporate lessons learned from 100 Area and 300 Area projects.**
- **Build efficiency into remaining characterization.**
- **Establish overall remediation priorities and identify near-term work to support the 200 Area cleanup.**

## ***Background - Vision***

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**The *200 Area Strategy* is a streamlined process of getting to and performing cleanup that is technically sound, protective of human health and the environment, and publicly acceptable.**

# ***200 Strategy Document Highlights***

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- **Assumptions and Constraints**
- **Waste Site Groupings**
- **Implementation**
- **Priorities**
- **Schedule**

# Assumptions and Constraints

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## Assumptions

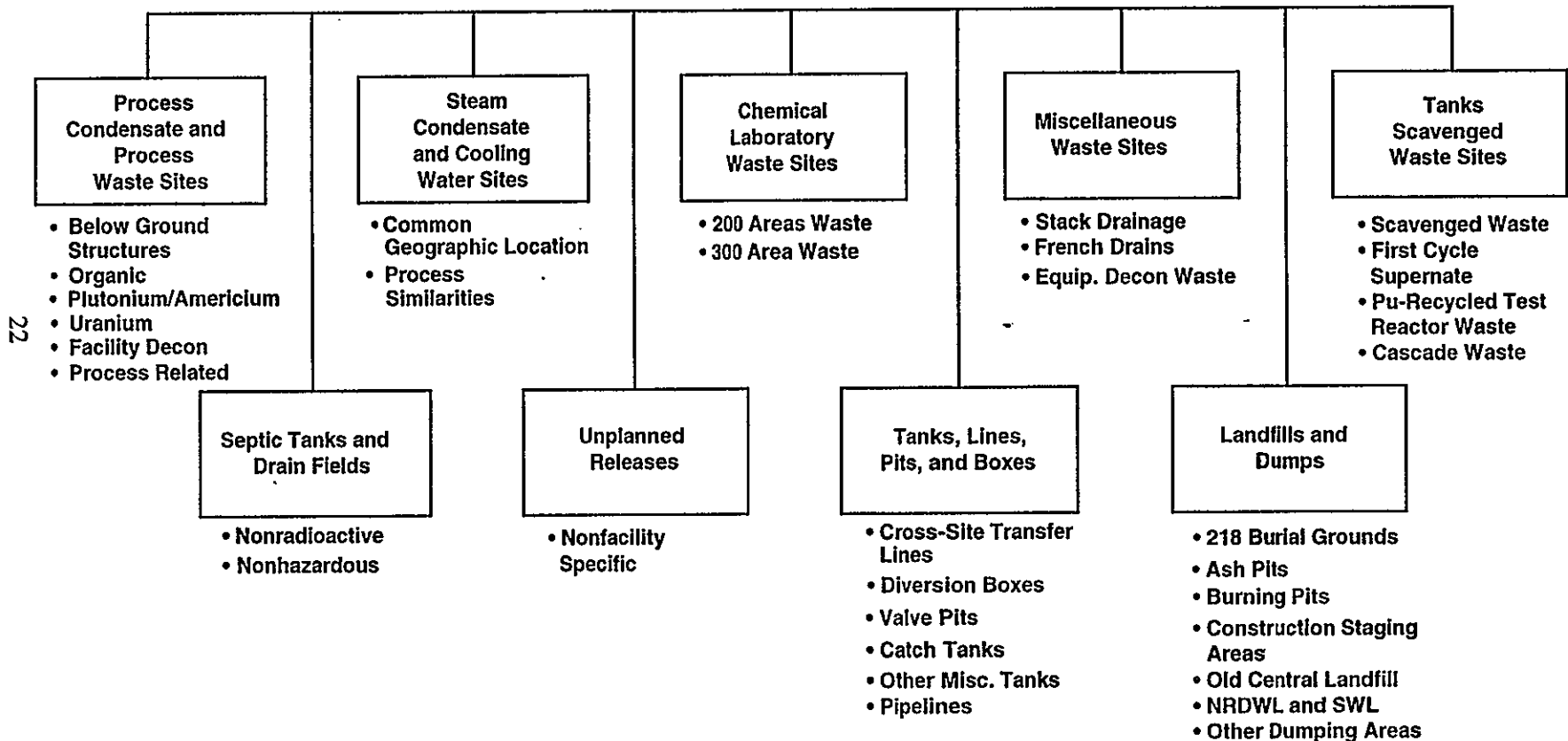
- *A new way of grouping sites for characterization may be needed.*
- *Applicable presumptive remedies, analogous sites, and observational approach can be used, provided characterization (which includes, but is not limited to, historical data) information supports it.*
- **Integrates Hanford Past-Practice Strategy with *Resource Conservation and Recovery Act of 1976* (RCRA) closure requirements.**
- **Integration with other projects/programs will occur.**

## Constraints

- **Funding is a constraint to developing schedules, not strategy. The 100 and 300 Areas priority is recognized.**

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# Waste Site Groupings

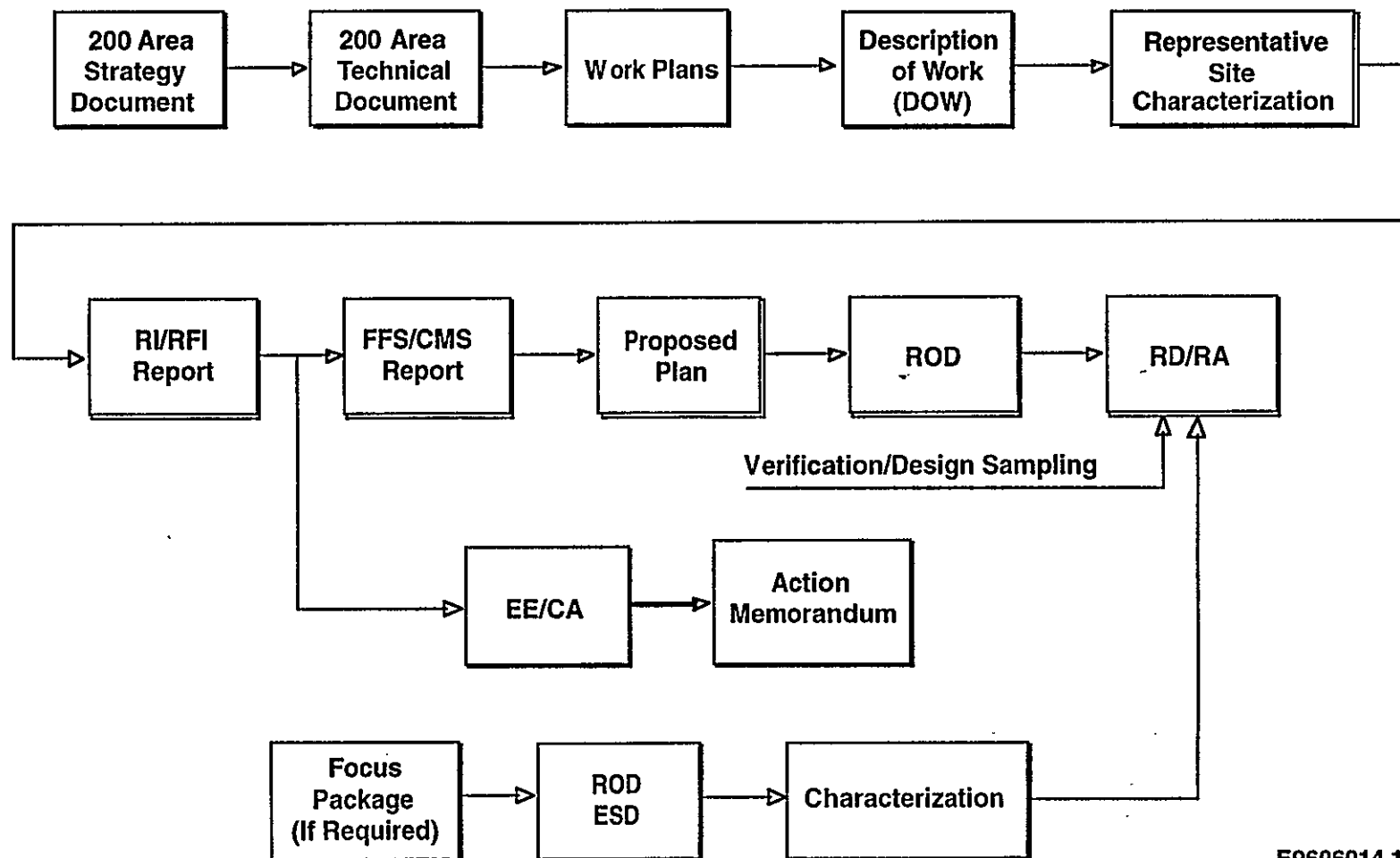


Excluded: Single- and double-shelled tanks and everything within tank farm fences and ancillary facilities.

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# Implementation



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# ***Priorities***

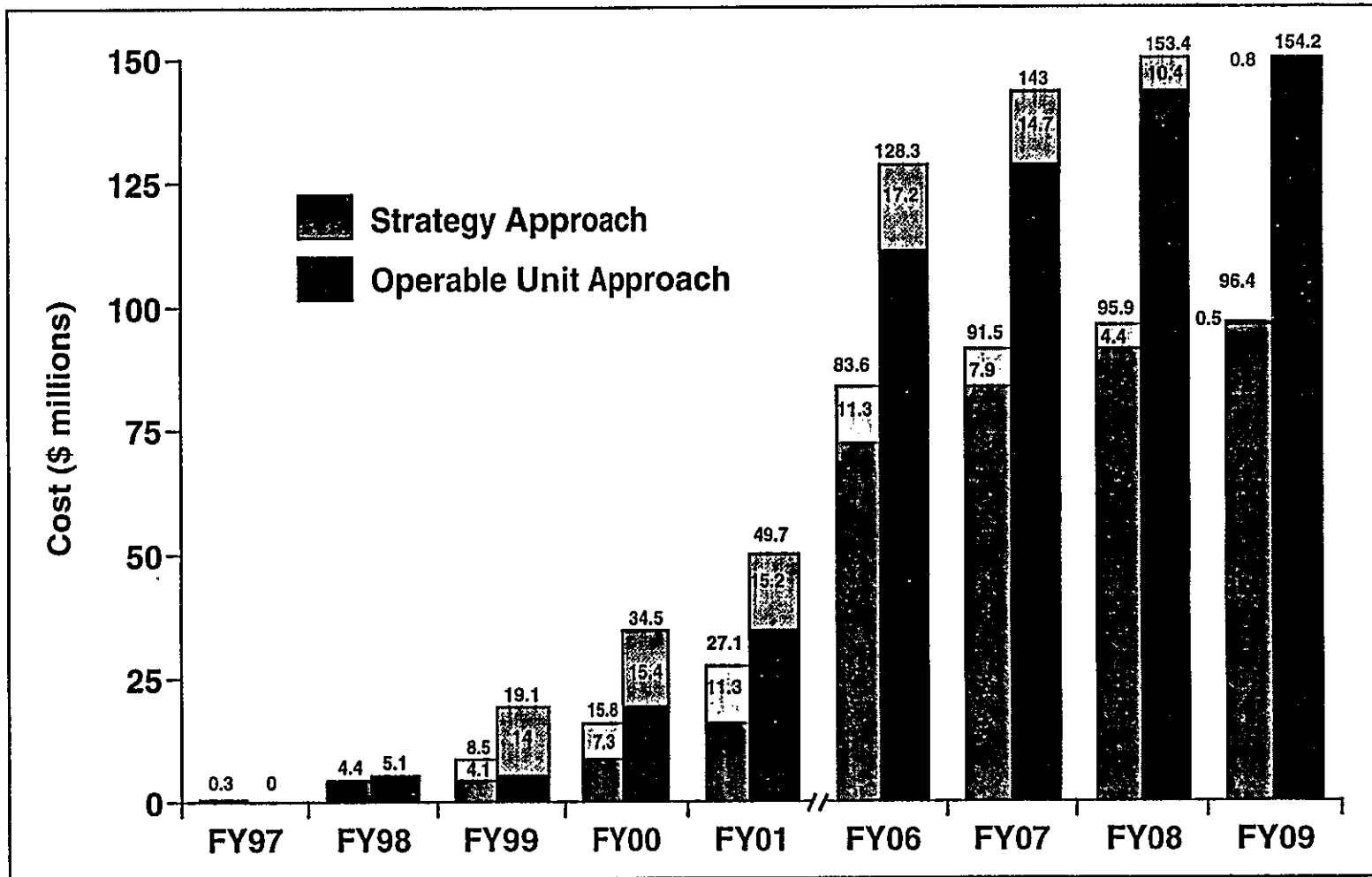
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## **The overall priorities that will drive the 200 Strategy implementation are:**

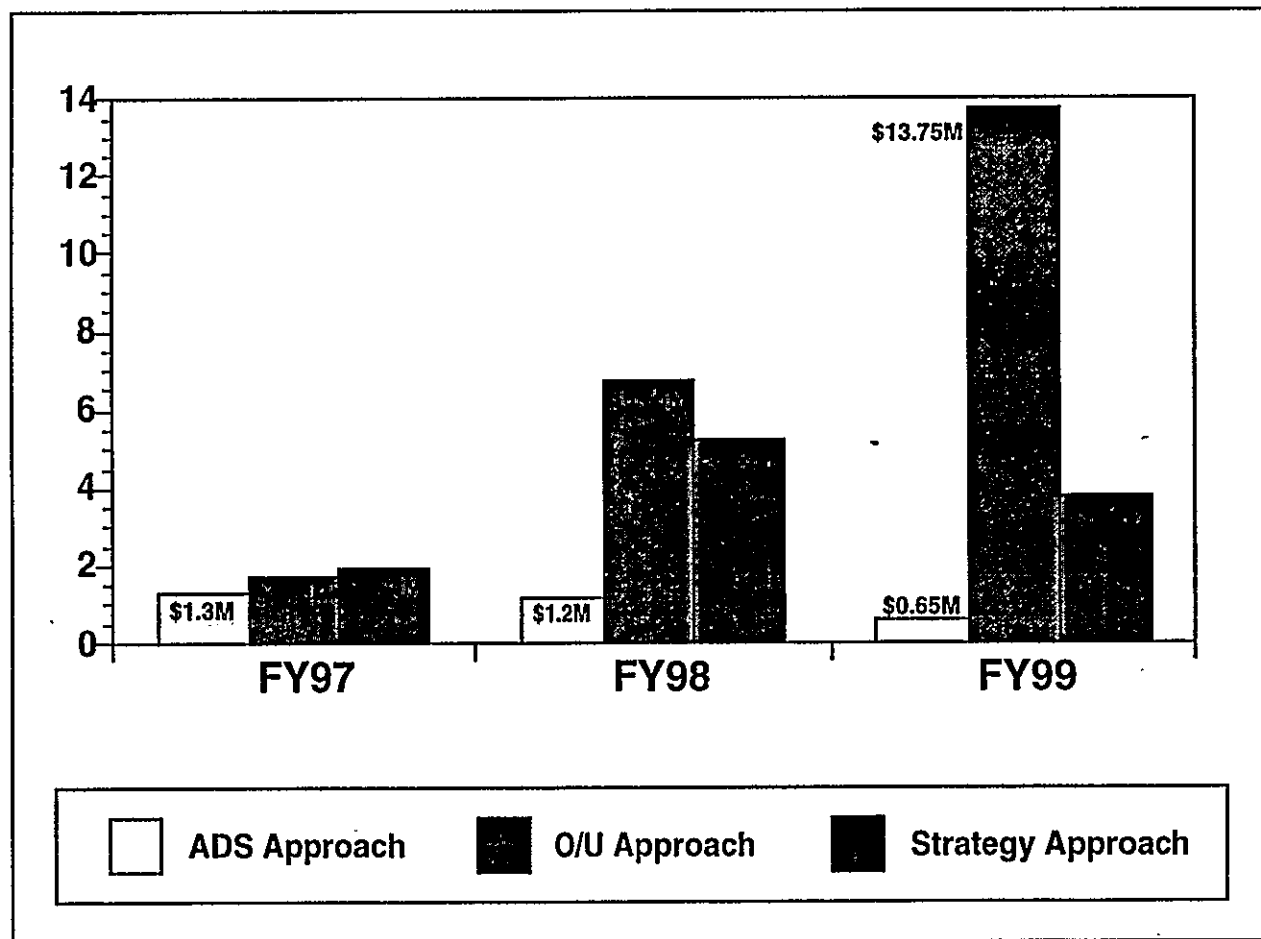
- **the “Pre-ROD characterization complete” Tri-Party Agreement milestone of 12/31/2008 and...**
- **the Permit Modification schedule of FY2000 for the three 200-BP-11 TSDs.**

# ROM Cost to Complete Pre-ROD Characterization by 12/31/08



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## MYWP Total Cost 200 Area FY97-FY99



# ***Accomplishments***

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**Great team work has resulted in  
AGREEMENT on:**

- **Reduced number of work plans**
- **Representative site characterization -  
gets us IN THE FIELD - FASTER!**
- **RCRA/CERCLA integration**
- **Use of generic approaches (plug-in,  
presumptive remedy)**

# Challenges

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- Gain “UP-FRONT” commitment from RL and regulator senior management.
- Meeting the “Pre-ROD characterization complete” Tri-Party Agreement milestone of 12/31/2008 and the Permit Modification schedule of FY2000 for the three 200-BP-11 TSDs.
- Minimize impact on 100 and 300 Areas cleanup (2003?).
- Reducing characterization \$\$ further to optimize project baseline.
- Be ready to support ERDF disposal throughput rates.

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# ***Key Points to Remember***

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**The strategy...**

**...is a much-improved approach to cleanup because it:**

- **REDUCES** paperwork significantly!
- **SAVES 50 MILLION \$\$\$** so far!
- **RELIEVES** funding constraints by reducing deliverables

**...NOT deferring dates and commitments**

# ***What We Need From You***

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- **Trust the team and collective decision making!**
- **Support strategy implementation now!**
  - **...Change the funding profile**
  - **...Commit to the implementation schedule**



# ***Team Perspectives***

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## **Positive Aspects:**

**“The strategy and the work it defines is a technically justified approach to conducting 200 Areas cleanup. As a benefit, the strategy promotes efficiency throughout the ER process.”**

**Suzanne Dahl - Ecology**

**“The strategy reflects ‘breakthrough thinking’ that gets us in the field and ready to initiate remediation with a 50 million dollar savings and a major reduction on paperwork!”**

**Bryan Foley - DOE**

**“Strategy is a common-sense approach to prioritization of 200 Areas remediation utilizing lessons learned that should result in a significant cost and time savings.”**

**Dave Lundquist - Ecology**

**“A positive aspect of this strategy is that it has been formulated by Ecology, EPA, and DOE-RL representatives who have lengthy experience and depth of knowledge of the 200 Areas.”**

**Joan Bartz - Ecology**

# ***Team Perspectives***

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## **Positive Aspects (cont.):**

**“At least we now have a thought process and plan to achieve Tri-Party Agreement milestones in the 200 Areas.”**

**Norm Hepner - Ecology**

**“This work to date is a very good attempt at a more comprehensive approach of coordination for characterizing and remediating the 200 Areas.”**

**Paul Beaver - EPA**

**“The commitment to get to remediation faster and quicker has been actively received by the working level project managers.”**

**Greg Mitchem - ERC**

**“The strategy addresses 200 Area cleanup work in a sensible, technically valid manner. The approach will result in an ability to make defensible cleanup decisions.”**

**Laura Russell - Ecology**

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# ***Team Perspectives***

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## **Positive Aspects (cont.):**

**“Characterization process focuses on types of waste sites (technically sound) versus operable unit focus. It is better.”**

**Jack Donnelly - Ecology**

**“My most positive hope for the strategy is to achieve efficient cleanup of the 200 Areas in a shorter time and much more efficient use of the finances.”**

**Shri Mohan - Ecology**

**“The strategy meetings, if nothing else, has resulted in more knowledge of 200 Area waste sites and issues.”**

**Jack Donnelly - Ecology**

# ***Team Perspectives***

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## **Real Concerns**

**“The challenge needing to be addressed is the selling of our strategy with an enforceable schedule and obtaining funding.”**

**Paul Beaver - EPA**

**“‘Partnering’ efforts of the DOE/EPA/Ecology strategy team need to be supported by respective management chains.”**

**Laura Russell - Ecology**

**“To maintain the momentum of working level project managers to personally take on the challenges of the ER program, upper-management support of the work these individuals have performed is critical.”**

**Greg Mitchem - ERC**

**“Overall priority for 200 Areas characterization and remediation, regardless of any one strategy, is low or nonexistent. So if it is not budgetarily feasible, what can be done?”**

**Jack Donnelly - Ecology**

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# ***Team Perspectives***

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## **Real Concerns (cont.)**

**“Land use is going to continue to be a contensions issue not within the workgroup, but getting stakeholder and tribal buy-in.”**

**Dave Lundquist - Ecology**

**“Need a 200 Areas start remediation milestone to guide planning and characterization.”**

**Jack Donnelly - Ecology**

**“Can we get it funded?”**

**Bryan Foley - DOE**

**“Tackling too much work in the work plans. May get bogged down in paperwork versus completing in-field characterization.”**

**Norm Hepner - Ecology**

# ***Team Perspectives***

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## **Real Concerns (cont.)**

**“A challenge that needs to be addressed is obtaining management agreement both with the strategy and to pursue the funding and staffing to implement it.”**

**Joan Bartz - Ecology**

**“Potential pit falls to the process could include insufficient funding to accomplish the job at hand.”**

**Suzanne Dahl - Ecology**

**“Application of the strategy may compromise appropriate characterization and adequate remediation.”**

**Shri Mohan - Ecology**

**200 Areas Strategy Meeting Grid**

| Participants    | 3/20/96<br>(mtg) | 3/21/96<br>(mtg) | 3/22/96<br>(mtg) | 4/4,5,8/96<br>(char.<br>grouping) | 4/9/96<br>(tour) | 4/10/96<br>(mtg) | 4/18/96 | 5/8/96<br>(mtg) | 5/15/96<br>(mtg) | 6/6/96 |
|-----------------|------------------|------------------|------------------|-----------------------------------|------------------|------------------|---------|-----------------|------------------|--------|
| Bryan Foley     | X                | X                | X                | X                                 | X                | X                | X       | X               | X                | X      |
| Paul Beaver     | X                | X                | X                | X                                 | X                | X                | X       | X               | X                | X      |
| Dennis Faulk    |                  | X                |                  |                                   |                  |                  |         |                 |                  |        |
| Joan Bartz      | X                | X                | X                |                                   |                  | X                | X       | X               | X                | X      |
| Suzanne Dahl    | X                | X                | X                | X                                 | X                | X                | X       | X               | X                | X      |
| Jack Donnelly   | X                | X                | X                |                                   | X                | X                | X       | X               | X                | X      |
| Norm Hepner     |                  |                  |                  |                                   |                  |                  |         | X               | X                | X      |
| Alisa Huckaby   | X                | X                | X                |                                   |                  |                  |         |                 |                  |        |
| Moses Jaraysi   | X                | X                | X                |                                   |                  |                  |         |                 |                  |        |
| Dave Lundstrom  | X                | X                | X                |                                   | X                |                  |         | X               |                  | X      |
| Shri Mohan      | X                |                  |                  |                                   | X                | X                | X       | X               | X                | X      |
| Laura Russell   | X                | X                |                  |                                   | X                | X                |         | X               | X                | X      |
| Joan Woolard    | X                | X                | X                |                                   | X                | X                | X       | X               |                  |        |
| Greg Mitchem    | X                | X                | X                |                                   | X                | X                | X       | X               | X                | X      |
| Greg Eidam      | X                | X                | X                |                                   | X                | X                |         |                 |                  |        |
| Michael Galgoul | X                | X                | X                |                                   | X                | X                | X       | X               | X                | X      |

**200 Areas Strategy Meeting Grid**

| Participants    | 6/14/96<br>(mtg) |  |  |  |  |  |  |  |  |  |
|-----------------|------------------|--|--|--|--|--|--|--|--|--|
| Bryan Foley     | X                |  |  |  |  |  |  |  |  |  |
| Paul Beaver     | X                |  |  |  |  |  |  |  |  |  |
| Dennis Faulk    |                  |  |  |  |  |  |  |  |  |  |
| Joan Bartz      | X                |  |  |  |  |  |  |  |  |  |
| Suzanne Dahl    | X                |  |  |  |  |  |  |  |  |  |
| Jack Donnelly   |                  |  |  |  |  |  |  |  |  |  |
| Norm Hepner     |                  |  |  |  |  |  |  |  |  |  |
| Alisa Huckaby   |                  |  |  |  |  |  |  |  |  |  |
| Moses Jaraysi   |                  |  |  |  |  |  |  |  |  |  |
| Dave Lundstrom  | X                |  |  |  |  |  |  |  |  |  |
| Shri Mohan      |                  |  |  |  |  |  |  |  |  |  |
| Laura Russell   |                  |  |  |  |  |  |  |  |  |  |
| Joan Woolard    |                  |  |  |  |  |  |  |  |  |  |
| Greg Mitchem    | X                |  |  |  |  |  |  |  |  |  |
| Greg Eidam      |                  |  |  |  |  |  |  |  |  |  |
| Michael Galgoul | X                |  |  |  |  |  |  |  |  |  |



### 200 Areas Source Operable Unit Strategy Action Item List - (06/14/96)

| No.                        | Performer | Description   | Date Assigned | Due Date | Date Completed | Description of Closure   |
|----------------------------|-----------|---|---------------|----------|----------------|--|
| <b>Tour Action Items</b>   |           |   |               |          |                |  |
| 1                          | ERC       | Was there a Sr-90 release to Gable Mt Pond?   | 04/09/96      | Hold     | Hold           | Items will be addressed as part of Technical Document Development, if approved (Note 1). |
| 2                          | ERC       | Was there an overflow from Gable Mt Pond to West Lake?                                | 04/09/96      | Hold     | Hold           | Note 1   |
| 3                          | ERC       | What is the physical status of the Hexone Tanks and what monitoring is being done?    | 04/09/96      | Hold     | Hold           | Note 1   |
| 4                          | ERC       | What is the well control for contaminants from the BC cribs, and what are the trends? | 04/09/96      | Hold     | Hold           | Note 1   |
| 5                          | ERC       | Is there groundwater contamination associated with 200 N?                             | 04/09/96      | Hold     | Hold           | Note 1   |
| 6                          | ERC       | What is currently going to B Pond, and why are there rad signs around B and C lobe?   | 04/09/96      | 05/17/96 | Hold           | Note 1   |
| 7                          | ERC       | Why does a surface stabilized area exist SE of OU3 inside the fence?                  | 04/09/96      | 05/17/96 | Hold           | Note 1   |
| <b>Tour Follow-on Work</b> |           |   |               |          |                |  |
| 1                          | ERC       | Is there 200 N groundwater contamination?   | 04/10/96      | Hold     | Hold           | Note 1   |

### 200 Areas Source Operable Unit Strategy Action Item List - (06/14/96)

| No.                                  | Performer | Description   | Date Assigned | Due Date | Date Completed | Description of Closure   |
|--------------------------------------|-----------|---|---------------|----------|----------------|--|
| 2                                    | ERC       | Ditches versus trenches (and cribs; label open, closed, ???).   | 04/10/96      | Hold     | Hold           | Note 1   |
| 3                                    | ERC       | Are any septic tile fields around Z Plant active?   | 04/10/96      | 04/10/96 | 04/10/96       | Yes, there are active septic fields around Z-Plant.                    |
| 4                                    |           | Waste-site groupings need field review to see how they fit (reality check).                                     | 04/10/96      | Hold     | Hold           | Incorporate as part of technical document or work plan work.<br>Note 1 |
| 5                                    | DOE       | B/C controlled area "risk" with windy season coming up and other surface contamination issues in the 200 Areas. | 04/10/96      | TBD      | Hold           | Note 1   |
| <b>Characterization Action Items</b> |           |   |               |          |                |  |
| 1                                    | ERC       | How is first cycle supernatant related to high-level waste definitions? (ERC)                                   | 04/08/96      | 05/08/96 | 06/06/96       |  |
| 2                                    | ERC       | Where did the muck removed from 361 tanks go? (ERC)   | 04/08/96      | 05/08/96 | 06/06/96       |  |
| 3                                    | ERC       | Is A-39 in the tank farm? (ERC)   | 04/08/96      | 05/08/96 | 06/06/96       |  |
| 4                                    | ERC       | Where is A-43 and A-44? (ERC)   | 04/08/96      | 05/08/96 | 06/06/96       |  |
| 5                                    | ERC       | Is there a new 200 E Powerhouse Pond? (ERC)   | 04/08/96      | 05/08/96 | 06/06/96       |  |
| 6                                    | ERC       | Need additional inventory information from the miscellaneous waste group sites to subcategorize.                | 04/08/96      | Hold     | Hold           | Hold pending technical document determination.                         |

### 200 Areas Source Operable Unit Strategy Action Item List - (06/14/96)

| No.                         | Performer    | Description  | Date Assigned | Due Date | Date Completed | Description of Closure                                      |
|-----------------------------|--------------|--|---------------|----------|----------------|---|
| 7                           | ERC          | QA check on the waste-site type designations used in the grouping process (e.g., process condensate). Check with Stenner et al. (ERC)  | 04/08/96      | Hold     | Hold           | Hold pending technical document determination.              |
| 8                           | Suzanne/Paul | Capture grouping philosophy - Narrative from subteam.  | 04/08/96      | 04/25/96 | 04/25/96       |   |
| <b>General Action Items</b> |              |  |               |          |                |   |
| 1                           | Tri-Parties  | Public involvement before finalizing the 200 Areas Strategy will occur.  | 03/22/96      | TBD      | 06/06/96       | Strategy Document is a primary document with public review. |
| 2                           | All          | Any items in the workshop sourcebook that the team feels are a candidate for inclusion in the strategy should be highlighted for future consideration (have ready for field trip).                                     | 03/22/96      | 05/30/96 | 06/06/96       | No items were identified.                                   |
| 3                           | All          | Field trip, April 9, 1996 - RL to coordinate with Paul Beaver and Jack Donnelly. Anyone who can brief on a particular waste site/aggregate area will inform their agency's contact person. Bring lunch and sourcebook. | 03/22/96      | 04/09/96 | 04/09/96       |   |
| 4                           | All          | Next meeting - April 10, 1996.   | 03/22/96      | 04/10/96 | 04/10/96       |   |
| 5                           | Karl Fecht   | Calculations for buffering capacity of soils (in liquid waste study).  | 03/21/96      | 03/22/96 | 03/22/96       | Karl Fecht handed out material on 03/22/96.                 |

### 200 Areas Source Operable Unit Strategy Action Item List - (06/14/96)

| No. | Performer | Description   | Date Assigned | Due Date | Date Completed | Description of Closure   |
|-----|-----------|---|---------------|----------|----------------|--|
| 6   | All       | Collect public values.  | 03/22/96      | 04/10/96 | 04/10/96       | It was decided that public values would not be included in the Strategy Document.              |
| 7   | All       | Read AAMSR before field trip.   | 03/22/96      | 04/09/96 | 04/09/96       |  |
| 8   | ERC       | Strategy document describe "linkage" of final grouping criteria statements.   | 03/22/96      | 05/17/96 |                | To be addressed in strategy document. Still open.  |
| 9   | ERC       | Provide adequate explanation of flowchart in strategy document.   | 03/22/96      | 05/17/96 |                | To be addressed in strategy document.  |
| 10  | ERC       | Prepare participants grid for all the meetings.   | 03/22/96      | 04/18/96 | 04/18/96       |  |
| 11  | ERC       | Get the meeting minutes from this meeting out early.  | 03/22/96      | 04/01/96 | 04/01/96       |  |
| 12  | All       | Each team member to review lists generated in Section 8.0 to come up with additional brainstorming ideas on implementation and prioritization. These should be sent to Joan Woolard before the meeting. | 03/22/96      | 04/10/96 | 04/10/96       | Brainstorming completed in 04/10/96 meeting.   |
| 13  | ERC       | Submit revised annotated outline before meeting.  | 03/22/96      | 04/03/96 | 04/03/96       | Outline submitted and revised in 04/10/96 meeting.   |
| 14  | All       | Evaluate need for an analytical strategy. Separate document or included in strategy.  | 05/02/96      | 05/15/96 | 05/15/96       | Part of level of characterization subteam. Analytical strategy as part of pre-work plan group. |

### 200 Areas Source Operable Unit Strategy Action Item List - (06/14/96)

| No. | Performer   | Description  | Date Assigned | Due Date | Date Completed | Description of Closure  |
|-----|-------------|--|---------------|----------|----------------|---|
| 15  | ERC         | Check to see what new information is available since the AAMRS (geophysical logging).            | 05/02/96      | TBD      | Hold           | Note 1  |
| 16  | ERC         | Provide a copy of the analytical strategy.   | 05/02/96      | 05/08/96 | 05/08/96       |   |
| 17  | ERC         | Pros/cons of work plan option 2 (strategy recommendation versus "old way").                      | 05/02/96      |          | 06/06/96       | Based on progress review.   |
| 18  | ERC         | Norm Hepner added to distribution list.  | 05/08/96      | 05/15/96 | 05/15/96       |   |
| 19  | ERC         | Create project schedule showing work through 09/96.  | 05/08/96      | 05/22/96 | 06/06/96       | Schedule handout.   |
| 20  | ERC         | Applicability of municipal landfill presumptive remedy to DOE burial grounds.                    | 05/08/96      | 05/22/96 | 06/06/96       | Closed with Kevin's handout.  |
| 21  | ERC         | Copy of phased response guidance.  | 05/08/96      | 05/15/96 | 05/15/96       |   |
| 22  | ERC/Ecology | Moses/Linda talk on RCRA issues.   | 05/08/96      | 05/15/96 | 06/06/96       | Met on Tuesday 06/04/96.  |
| 23  | ERC         | Options evaluation factors should be reworded to capture meaning and use as a evaluation factor. | 05/15/96      | 06/06/96 | 06/06/96       | Technical editor added to cycle to insure meaning of statements is clear. |
| 24  | ERC         | Is the Strategy Document a primary document or secondary document per TPA.                       | 05/15/96      |          | 06/06/96       | The Strategy Document is a primary document.                              |
| 25  | ERC         | Project schedule for FY96.   | 05/15/96      | 06/04/96 | 06/06/96       | Schedule handed out.  |

### 200 Areas Source Operable Unit Strategy Action Item List - (06/14/96)

| No. | Performer                  | Description   | Date Assigned | Due Date | Date Completed | Description of Closure  |
|-----|----------------------------|---|---------------|----------|----------------|---|
| 26  | Ecology/EPA                | Priority subgroup should look at criteria for selecting "representative" sites.   | 05/15/96      | 06/04/96 | 06/04/96       | Priority subgroup looked at this during June 4, 1996 meeting and recommend it be handled by the Technical Document Subteam. |
| 27  | ERC                        | Explain what and where the "Focus Package" box on the 200 Area Implementation Flowchart can/may be used.                              | 06/06/96      | TBD      |                |   |
| 28  | Ecology/EPA                | Ecology and EPA will review 06/06/96 minutes and return comments to M. J. Galgoul.  | 06/14/96      | 06/21/96 |                |   |
| 29  | EPA/ERC                    | The EPA will schedule Doug Sherwood for a 07/11/96 video teleconference, and the ERC will schedule a video teleconference room.       | 06/14/96      | 06/21/96 |                |   |
| 30  | Technical Document Subteam | Develop a straw conceptual model based on the 200-UP-2 OU for the team to evaluate.   | 06/14/96      | 07/09/96 |                |   |
| 31  | Strategy Team              | The strategy team was asked to review and provide comments on the characterization criteria table with the quantitative values added. | 06/14/96      | 07/09/96 |                |   |
| 32  | EPA/Ecology                | Determine if a mechanism exists for RCRA acceptance of representative site data for a TSD closure.                                    | 06/14/96      | 07/09/96 |                |   |

**200 Areas Source Operable Unit Strategy Action Item List - (06/14/96)**

| No. | Performer        | Description   | Date Assigned | Due Date | Date Completed | Description of Closure |
|-----|------------------|---|---------------|----------|----------------|------------------------|
| 33  | All team members | Team members should identify participation in cross program teams and forward by cc:Mail to Curt Wittreich. | 06/14/96      | 06/21/96 |                |                        |

### 200 Areas Source Operable Unit Strategy Parking Lot Items - (06/14/96)

| No. | Description  | Date Assigned | Date Closed | Status                       | Description of Closure   |
|-----|--|---------------|-------------|------------------------------|--|
| 1   | 100 mrem/yr basis - April 10th?  | 03/22/96      |             | Linked with Item 3.          | Try for next meeting after Item 3 discussion.  |
| 2   | Presumptive remedies.  | 03/22/96      | 05/08/96    |                              | Consensus on integration with strategy document received.  |
| 3   | Land use (industrial standard?) - April 10th?<br><ul style="list-style-type: none"> <li>Does characterization drive land use or does land use drive characterization?</li> <li>Does characterization drive remedial decisions or does remedial decision drive characterization?</li> </ul> | 03/22/96      |             | Elevated to decision-makers. | Meeting held 05/09/96 with Dave Lundstrom, Paul Beaver, Bryan Foley, and Doug Sherwood. Proposed language for an assumption was discussed. Revised assumption will be provided to all participants for further consideration. Issue still open.<br><br>Will be considered during technical document development. |
| 4   | Groundwater versus source correlations?  | 03/22/96      | 06/06/96    |                              | Prioritization issue. Hold pending priority discussion.  |
| 5   | Consider waste site deletion candidates. (Do we know enough about some sites now to drop from further consideration?)  | 03/22/96      | 05/08/96    |                              | Waste site reclassification approach accepted.   |
| 6   | Put remedial alternatives section in strategy document?  | 03/22/96      | 05/08/96    |                              | Outline addresses this approved.   |
| 7   | Possible addition to assumptions list (from Suzanne Dahl).<br><ul style="list-style-type: none"> <li>Strategy actions must be considered against sitewide cumulative risk.</li> </ul>  | 03/22/96      | 06/06/96    | Closed                       |  |
| 8   | Waste disposal for the 200 Areas? - April 10th.  | 03/22/96      |             |                              | Included in Item 3 above.  |



**200 Areas Source Operable Unit Strategy Parking Lot Items - (06/14/96)**

| No. | Description   | Date Assigned | Date Closed | Status | Description of Closure   |
|-----|---|---------------|-------------|--------|--|
| 9   | Scope of the technical document. How much data evaluation is needed and what belongs in the technical document versus the work plans. Geophysical logs and groundwater data, conceptual models. | 05/03/96      | 05/15/96    |        | Assign to pre-subteam and present to full team. Description of closure level of characterization. Subteam established generic technical document scope and defer the level of detail to the technical document working team. |
| 10  | Interim versus final action.  | 05/03/96      | 05/08/96    |        | Deleted.   |
| 11  | Level of risk assessment and characterization.  | 05/03/96      | 06/06/96    |        | Assign to subteam and present to full team.  |
| 12  | Include schedule in strategy document.  | 05/13/96      | 06/06/96    |        | Based on agreement that schedule is in strategy document.  |
| 13  | Resolve issues associated with no present FY 1997 funding for 200-UP-2 and 216-U-12 closure.  |               |             |        |  |

**Distribution**  
**Unit Managers' Meeting: 200 Areas Remedial Action**  
**200 Areas Remedial Action Strategy Work Shop**  
**June 14, 1996**

|                             |                 |
|-----------------------------|-----------------|
| Bryan Foley .....           | DOE-RL (H0-12)  |
| Jim Hanson .....            | DOE-RL (H0-12)  |
| Heather Trumble .....       | DOE-RL (H0-12)  |
| Donna Wanek .....           | DOE-RL (H0-12)  |
|                             |                 |
| Dennis Faulk .....          | EPA (B5-01)     |
| Paul Beaver .....           | EPA (B5-01)     |
|                             |                 |
| Joan Bartz .....            | (Ecology) B5-18 |
|                             |                 |
| Vern Dronen .....           | ERC (H0-17)     |
| Karl Fecht .....            | ERC (H0-02)     |
| Linda Mihalik .....         | ERC (H9-12)     |
| Greg Mitchem (3) .....      | ERC (H0-17)     |
| Michael Galgoul .....       | ERC (H9-12)     |
|                             |                 |
| Administrative Record ..... | (H0-09)         |

Please inform Gary Gesell (372-9067) of BHI  
of deletions or additions to the distribution list.